## **Patent Claims:**

- A metal pigment for a cosmetic preparation, such as lipstick, nail polish, eye shadow, hair colorant, liquid mascara, powder, eyeliner, rouge,
   skin/hair care products, perfume, eau de toilette, lotions or the like, characterized in that a metallic substrate has a substrate-enclosing layer produced by the sol-gel process, which provides a barrier effect against sweat and saliva and prevents direct contact between skin and metallic substrate.
- 2. A metal pigment according to claim 1, characterized in that the layer is compatible with a binding agent or carrier of the cosmetic preparation.
  - 3. A metal pigment according to claim 1 or 2, characterized in that the layer contains inorganic material or consists of it.

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4. A pigment according to any of claims 1 through 3, characterized in that the inorganic material is selected from the group consisting of silicon oxide, titanium oxide, aluminum oxide, iron oxide, ceroxide and chromium oxide or corresponding hydrates as well as mixtures thereof.

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- 5. A pigment according to any of claims 1 through 3, characterized in that the layer contains organic material or consists of it.
- 6. A pigment according to any of claims 1 through 3 or 5, **characterized**in that the organic material contains polyacrylates, silicones, polyolefins, polystyrol, polyesters, cellulose esters, polyamides, phosphor-organic substances, organically modified silanes, organically modified titanates, organically modified zirconates, as well as mixtures thereof.

- 7. A pigment according to any of claims 1 through 6, characterized in that the layer thickness of the encapsulation is 5 to 500 nm.
- 8. A pigment according to any of claims 1 through 7, characterized in
  5 that the metallic core consists of copper, zinc, aluminum, titanium, silver or gold or alloys of said elements.
- 9. A pigment containing aluminum according to any of claims 1 through 8, characterized in that the metallic core consists of aluminum, 100% of the
  10 grain size is < 75 μm and 95% is < 45 μm and the content of mercury is <= 1 ppm, of arsenic <= 3 ppm, of lead <= 20 ppm, and the Al content is >= 99%.
- 10. A pigment according to any of claims 1 through 8, characterized in
   15 that the metallic core consists of aluminum, the content of mercury is <=</li>
   1ppm, of arsenic <= 3ppm, of lead <= 10 ppm, of cadmium <= 1ppm, of heavy metals (as lead) <= 40 ppm, the drying loss at 105°C is <= 0.5%, and the Al content is >= 99%.
- 11. A pigment according to any of claims 1 through 8 in the form of a bronze pigment, characterized in that the metallic core contains a content of copper of 70 to 95%, a content of zinc <= 30% and a content of aluminum and tin of <= 0.5% in each case, and the content of cadmium is <= 15 ppm, of lead <= 20 ppm, of arsenic <= 3 ppm and of mercury <= 1 ppm,</li>
  25 and 95% of the grain size is < 45 μm.</li>
  - 12. A pigment according to any of claims 1 through 8 in the form of a copper pigment, characterized in that the metallic core has a content of

copper >= 95% and the content of cadmium is <= 15 ppm, of lead <= 20 ppm, of arsenic <= 3 ppm and of mercury <= 1 ppm, and 95% of the grain size is < 45  $\mu$ m.

- 13. A pigment according to any of claims 1 through 8, characterized in that the metallic core consists of silver, the content of mercury is <= 1 ppm, of arsenic <= 5 ppm, of lead <= 10 ppm, and the content of silver is >= 99.9%.
- 14. A pigment according to any of claims 1 through 8, characterized in that the metallic core consists of silver and the content of silver is >= 99.5%.
- 15. A pigment according to any of claims 1 through 8, characterized in
   15 that the metallic core consists of gold, the content of silver is <= 7%, of copper <= 4%, and the content of gold is >= 90%.
  - 16. A pigment according to any of claims 1 through 5, characterized in that the pigment is provided with a coating, wherein the weight ratio of coating to metallic core is between 1 and 0.001.

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17. A pigment according to any of claims 1 through 16, characterized in that the metallic substrate is a metal pigment produced through grinding with lubricants of plant origin.

18. A pigment according to any of claims 1 through 17, characterized in that the metallic core is formed flake-like with a diameter of 1 to 100  $\mu$ m and a mean thickness of 0.05 to 2  $\mu$ m.

19. A method for producing a pigment according to any of the above claims, **characterized in that** the metallic substrate particles are coated without additional pretreatment in a sol-gel process in alcoholic-aqueous solution through hydrolysis and vapor depositing of organic metal oxide pre-stages and optionally with the use of suitable catalysts.

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20. A cosmetic preparation containing a pigment according to any of claims 1 through 8.